

**ADDENDUM NO. 3**

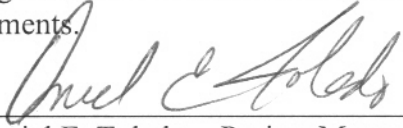
**CITY OF HIALEAH  
POLICE SECTOR 3  
2700 W 8<sup>TH</sup> AVE  
HIALEAH, FLORIDA**

**JANUARY 11, 2010**

TO ALL CONCERNED

The original Contract Documents, for the Project entitled **CITY OF HIALEAH – Police Sector 3**, (for all bids noted below) are hereby amended as noted in this **Addendum No. 3**.

This **Addendum No. 3** consists of **1** Typed Pages, **0** Sketches, **1** Attachments and **0** Drawings. All other items and conditions of the original Contract Documents shall remain unchanged. This Addendum shall become a part of the Contract Documents.

Approved for issue:  Date: January 11, 2010  
Oniel E. Toledo - Project Manager

**ACKNOWLEDGEMENT**

Receipt of this **Addendum No. 3** shall be acknowledged in the space provided on the ADDENDUM RECEIPT FORM (ARF) (copy attached) now a part of the Contract Documents and to be faxed immediately to City of Hialeah @ (305) 687-2642 and submitted with sealed bids.

ATTACHMENTS:

ATT-1 E-mail dated (01-05-10) from: **Dome Enterprise**  
ATT-2 Drywall Specification 09260 (Fourteen (**14**) pages)

CLARIFICATIONS:

- All material used at bathrooms has to be Durock and not Type X MR drywall.

***FRAMING & DRYWALL - 2009/10-3230-00-029***

**PAGE 1 OF 1**

**END OF ADDENDUM No. 3**

## SECTION 09260

### GYPSUM BOARD SYSTEMS

#### PART 1 GENERAL

##### SUMMARY OF WORK

Responsibilities of the Framing and Drywall Contractor include the complete interior wall systems, as per plans and specifications, of the police building including but not limited to:

- Material and Installation for all metal and wood framing (including doors, kitchen backings, and a 2x6 PT underneath floor track.)
- Installation of all metal door frames including the 2x4 around the frame. City of Hialeah will supply frames.
- Material and Installation for all drywall and durorock
- Material and Installation for all gypsum ceilings including soffits if necessary.
- Material and Installation of all metal bracing and 5/8" plywood on outside columns.
- Materials and Installation for all drywall finish, Plaster finish on ceilings and sanding
- Materials and Installation for all wood backing for cabinets, shelves, baseboards, and bathroom fixtures
- Materials and Installation for all window blocking (1 x 4 P.T., fasteners and caulking)
- Supply and Install all corner beads at windows, doors and outside corners
- Supply and Install the specified Drywall and Durorock screws
- Materials and Installation for taping of all durorock joints (mesh)
- Safety Equipment as per OSHA standards
- All equipment necessary to perform work including delivery and stocking of materials
- Cutting and Patching
- Clean up and debris removal
- Punch list
- Contractor must perform a daily cleaning and must avoid accumulation of plaster on the floor and walls. Contractor that does not comply will be fine \$500.00 daily.

#### 1.01 SECTION INCLUDES

- A. Steel framing members.
- B. Components for suspended ceilings and soffits.

- C. Gypsum board:
  - 1. Regular.
  - 2. Fire rated.
  - 3. Water resistant.
  - 4. Tile backer board.
  - 5. Gypsum backing board.
  - 6. Shaft wall liner.
- D. Accessories.
- E. Gypsum base coat plaster for filling hollow metal interior door frames.
- F. Sound attenuation blanket.
- G. Acoustical tape, sealant.
- H. Laminating adhesive.

#### **1.02 SUBMITTALS**

- A. Submit properly identified product data including material specifications and printed installation directions for system.
- B. Where fire rated partitions, shaft walls and ceilings are indicated, submit manufacturer's U.L. design for each item of construction.

#### **1.03 ENVIRONMENTAL CONDITIONS**

- A. Proceed with installation of gypsum board materials only after building is weathertight. Maintain temperature in areas receiving gypsum board materials between 55 degrees and 90 degrees F. during and subsequent to installation and provide adequate ventilation.

#### **1.04 QUALITY ASSURANCE**

- A. Unless otherwise specified, comply with applicable requirements of governing codes and authorities and ASTM C754 and C840.
- B. Comply with fire-resistance ratings as required by governing authorities and codes. Materials must be listed by Underwriters' Laboratories or tested in accord with ASTM

E119.

- C. All components of gypsum board systems shall be by one manufacturer or compatible.

## **PART 2 PRODUCTS**

### **2.01 ACCEPTABLE MANUFACTURERS**

- A. Provide gypsum board products by the following manufacturers or approved equal.
  - 1. Georgia Pacific Bestwall.
  - 2. Gold Bond By National Gypsum Co.
  - 3. United States Gypsum Co.
  - 4. The Flintkote Co.
  - 5. Dale Industries Inc.
  - 6. The Celotex Corp.
  - 7. Monex Corp.

### **2.02 STEEL FRAMING MEMBERS**

- A. Metal Studs: ASTM C645; screw type, roll-formed galvanized steel, 25 gauge and 20 gauge as required, depths as indicated.
- B. Floor and Ceiling Runners: 25 gauge and 20 gauge galvanized steel; width as required to suit screw studs.
- C. Standard Furring Channels: 25 gauge hat-shaped galvanized steel channels; 7/8 inch depth x 1—3/8 face width.
- D. “Z” Furring: 26 gauge galvanized steel, 1-1/2 inch deep.
- E. Shaft Wall Studs: 22 gauge galvanized steel, 2-1/2 inches deep, length as required. U.S. Gypsum, #212 CH22, or equivalent.
- F. Shaft Wall “J” Runners: 24 gauge, galvanized steel; 1 inch by 2-1/2 inches by 2-1/4 inches, lengths as required. U.S. Gypsum #212 JR24 or equivalent.

### **2.03 COMPONENTS FOR SUSPENDED CEILINGS AND SOFFITS**

- A. Hanger Attachment Devices for Concrete: No. 75 hanger inserts by Advance Metal Products, Inc.; No. 3601 power driven eye pins by Ramset; No. SA-l625 sleeve type concrete expansion anchors with wire eyes, by Phillips Drill Co.; self-drilling concrete expansion anchor with wire eyes in accord with Fed. Spec. FF-S-325(3), Group III, Figure l5D.
- B. Hangers: Galvanized, annealed, pre-straightened steel wire, No. 8 gauge where supporting up to 12.5 square feet of ceiling, and No. 6 gauge where supporting up to 16 square feet of ceiling.

- C. Channel Tie Wire: 16 gauge galvanized soft annealed steel wire.
- D. Channel Clips: Galvanized wire designed to attach furring channels to 1-1/2 inch main runners.
- E. Main Runners: Cold-rolled painted steel channels, 1-1/2 inch x .475 pounds per foot and 2 inch x 1.26 pounds per foot as required.
- F. Cross Furring: 25 gauge hat-shaped galvanized steel furring channel; 7/8 inch deep x 1 3/8 inch face width.
- G. Metal Screw Stud Furring: ASTM C645; screw type, roll formed galvanized steel, 25 gauge of depths as indicated or as required by Table 2.

#### **2.04 GYPSUM BOARD ACCESSORIES**

- A. Corner Beads: "Dur-A-Bead No. 101" by United States Gypsum; heavy duty, electro-galvanized steel; 1 inch x 1 inch.
- B. Casing Beads: "No. 200 Series" by United States Gypsum; roll formed electro-galvanized steel.
- C. Control Joints: "No. 093" of roll formed zinc, by United States Gypsum, with tape protected 1/4 inch wide x 7/16 inch deep opening.

#### **2.05 GYPSUM BOARD**

- A. 48 inches wide unless otherwise indicated; 5/8 inch thick unless otherwise indicated; lengths as great as practicable to minimize joints; in accord with ASTM C36.
- B. Regular Gypsum Board: Paper-faced surface suitable to receive decorative finish with long edges tapered.
- C. Fire-Rated Gypsum Board: Specially formulated mineral core and treated paper face with long edges tapered; Type X.
- D. Water-Resistant Gypsum Board: Multi-layered chemically treated face and back paper and asphalt composition core in accord with ASTM C630 with long edges tapered.
- E. Tile Backer Board: At tiled wall (shower) areas, 36 inches wide, 1/2 inch thick; lengths as great as practicable to minimize joints, Durock manufactured by U.S. Gypsum, Wonder Board by Modulars, Inc., P.O. Box 216, Hamilton, Ohio 45012, or approved equal.

- F. Gypsum Backing Board: Designed for base layer application in accord with ASTM C442.
- C. Shaft Wall Liner: 1" U.L. labeled gypsum shaft wall liner, beveled edge, 16" or 24" wide by manufacturer's standard lengths.

## **2.06 FASTENERS**

- A. Gypsum Board Screws: No. 6 self-drilling, cross slot countersunk bugle head, zinc plated, 1 inch long for single gypsum board layer applied to metal studs, and metal furring and not less than 1-5/8 inch long for double layer gypsum board applied to metal studs. Provide 1-1/4 inch screws for gypsum board applied to wood blocking.
- B. Runner and Metal Furring Fasteners: Zinc plated hardened steel stub nails.
- C. Stud and Door Frame Screws: No. 6 self-drilling, cross slot pan head, zinc plated, 3/8 inch or 1/2 inch long, as required.
- D. Staples for Gypsum Board Accessories: Zinc plated; length as required.
- E. Twist Clips: Sizes as required to fit acoustical suspension system members.

## **2.07 GYPSUM BASE COAT PLASTER (FOR FILLING HOLLOW METAL INTERIOR DOOR FRAMES)**

- A. Gypsum base coat plaster shall comply with ASTM C28, regular wood fibered type.

## **2.08 JOINT TREATMENT MATERIALS**

- A. Tape and joint compound for embedding and fill coat application and finishing in accord with ASTM C475, ready mixed.

## **2.09 SOUND ATTENUATION BLANKETS**

- A. In accord with Fed. Spec. HH-I-521F, Type 1, Class A; thickness as indicated; Therrnafiber" by U.S. Gypsum Co.; mineral wool blankets or batts by National Gypsum Co.; "Fiberglass" blankets by Owens—Corning Fiber glass Corp.

## **2.10 BUTYL ACOUSTICAL SEALER TAPE**

- A. Butyl acoustical sealer tape shall be 1/16 inch by 2 inch, Tremco TAT-1 or 3M Brand.

## **2.11 ACOUSTICAL SEALANT**

- A. Acrylic or vinyl emulsion type, by U.S. Gypsum Acoustical Sealant, or accepted equivalent.

## **2.12 FOAM TAPE**

- A. Soft vinyl foam tape, self stick type off-white color; 1 inch wide by 1/8 inch thick; "No. R-313-V", by Rubatex Corp.; "Vinyl V" by Williams Equipment and Supply Co.

## **2.13 LAMINATING ADHESIVE**

- A. United States Gypsum Durabond Joint Compound 210 or 90, or equivalent as recommended by gypsum board manufacturer.

## **PART 3 EXECUTION**

### **3.01 GENERAL**

- A. Install gypsum board systems in strict accord with manufacturer's published installation directions, and as specified herein.

### **3.02 INSTALLATION OF STEEL FRAMING FOR GYPSUM BOARD PARTITIONS**

- A. Install floor and ceiling runners as required; do not miter at corners.
- B. Install steel framing members 16 inches o.c., plumb, level, true to line, and secured with proper fasteners.
- C. Terminate partitions at heights indicated on the drawings.
  - 1. Where partitions terminate at underside of structural deck, install long leg type ceiling runners leaving 1/2" space between top of stud and web of ceiling runner.
    - a. Secure ceiling runners to concrete structure with hardened stub nails or power driven fasteners at 24 inches o.c.
  - 2. Where partitions terminate at suspended acoustical ceilings provide twist clips 24 inches o.c. maximum for attachment of ceiling runner to suspended tees. Attach casing beads to ceiling runner. Prior to attachment, seal gap between partition top and acoustical ceiling with two continuous strips of foam tape applied to top of ceiling runners.
- D. Provide additional studs to support inside corners at partition intersections and corners, and to support outside corners, terminations of partitions and both sides of control joints. Provide not less than 3 studs at partition external corners and intersections.

- E. Provide 20 gauge metal studs at door jambs and at partitions supporting heavy loads such as shelving, wall cabinets, and plumbing fixtures. Provide 25 gauge studs at other locations.
- F. Coordinate frame openings with hollow metal frames. Provide 20 gauge metal studs on each side of door frame openings extended to overhead structure. Framing across top of door frames shall be made of standard floor and ceiling runner with flanges cut and bent 90 degrees at each end.
  - 1. Install short lengths of studs vertically 16 inches o.c., above door frames, with each flange of each stud secured to top and bottom runners. Provide diagonal stud braces in stud panels over openings over 4 feet wide. Fit diagonal stud braces between top and bottom runners and secure each flange at each end to runners.
- G. Provide all holes, cut outs and notches in framing members for proper installation of electrical and mechanical items. Provide stud framing fastened in partitions as required for support of electrical boxes, telephone boxes, lights, access doors, and other attached or recessed equipment.
  - 1. Provide all stud and ceiling runner reinforcing or additional studs as required to provide straight, plumb and safe partitions, free from weakness. Where studs are cut for pipe, conduit, and other work, reinforce partitions in accord with manufacturer's directions and details.
- H. Where chase walls are indicated thicker than nominal stud depth, provide two rows of metal studs. Studs to be spaced 16 inches o.c. to provide chase wall width desired or as required to accommodate pipes and recessed accessories indicated.
  - 1. Brace each row of studs together with horizontal metal stud sections spaced 24 inches o.c. maximum, attached to each vertical stud. Form metal stud furred pilasters as required to conceal ducts, pipes, and conduits in finished areas.
- I. Horizontal stiffeners:
  - 1. At single layer partitions over 8'-0" high with studs spaced 16 inches o.c.
  - 2. At double layer partitions over 10'-0" high with studs spaced 16 inches o.c.
  - 3. Stiffener spacing as per manufacturer's recommendations.

### **3.03 INSTALLATION OF STEEL FRAMING FOR FIXED FURRED WALLS AND COLUMNS**

- A. Install standard (hat shaped) furring channels vertically on walls and at wall and column corners at 16 inches o.c., maximum, unless otherwise indicated. Install horizontal furring at floor, top and above and below openings. Shim furring plumb and in a true plane at faces. Secure furring with hardened stub nails at 16 inches o.c. on alternate flanges.

- B. Install “Z” furring vertically on walls at 16 inches o.c. and on wall corners and column corners. Install horizontal “Z” furring at floor, top and above and below openings. Shim furring plumb and in a true plane at faces. At insulated exterior walls and columns extend furring up to overhead slab. Secure furring with hardened stub nails at 16 inches o.c. Coordinate furring installation with installation of wall insulation.
- C. Hangers:
1. Secure hangers to concrete construction by attaching to inserts or by drilled-in or power driven attachment devices; by inserting through cast-in-holes in concrete joists; or by looping over joists before slabs are formed. Secure top ends of hanger wires, not hooked in concrete, by inserting through anchor eye and twisting free end three times around Wire.
  2. Location and Spacing: Locate hangers plumb in relation to main runners and avoid contact with insulation covering ducts and pipes. Do not pass hangers through ducts. Space hangers in accord with Table 1. Alter spacing of hangers or provide double hangers splayed to avoid ducts and other obstructions but do not exceed maximum allowable ceiling area to be supported by each hanger. Offset horizontal forces of splayed hangers by counter-splaying bracing or other suitable means.
  3. Provide extra hangers within 6 inches of ends of main runners, to support light fixtures and as required to support diffusers, grilles, access panels and other items resting in or on the ceilings. At control and expansion joints, provide extra hangers as required to support discontinuous runners.
  4. Where overhead structural supporting members are at such spacing that above requirements cannot be complied with, adequate intermediate supports shall be provided, or main runners shall be made deeper, or heavier, or closer spaced main runners shall be provided as required.
- D. Main Runners: Suspend main runners on hanger wires, level and true. Size and spacing of main runners shall be in accord with Table 1. Saddle tie main runners to hanger wires. Locate main runners within 6 inches of parallel walls to provide support for cross furring. Splice main runners by lapping 12 inches and wire tying each end of splice with two double strands of 16 gauge wire.
- C. Furring: Provide standard metal furring or metal screw stud type furring channels of sizes and spacings indicated in Table 2. Attach furring to main runners by saddle tying to main runners with two strands of No. 16 gauge wire, or by suitable wire clips. Splice screw stud type furring channels by lapping 8 inches and secure with pan head sheet metal screws.
- D. Do not abut runners or furring into masonry or concrete construction; allow 1 inch clearance, minimum between such construction and ends of runners or furring.
- E. Install suspension system to required plane within + 1/8 inch in 12 feet.

- F. Grillage Reinforcing: At light fixtures, access doors, and other ceiling openings that interrupt furring, provide additional furring reinforcing to restore grillage strength. Provide furring members at perimeters of ceiling openings.
- G. Access Doors: Install access doors furnished under other trades. Provide hanger wire supports at corners of access doors sized 16 inches or larger.
- H. Strut Bracing: For ceilings over 100 square feet, in addition to wire hangers, provide 1-1/2 inch runner channel or screw stud type struts for each 64 square feet of ceiling, secured to overhead and with bottom ends secured to main runner channels. For ceiling grids not braced by partitions on all sides, provide furring channel "X" braces 8 feet o.c. as required to maintain horizontal stability of ceiling.

### **3.05 INSTALLATION OF GYPSUM BOARD**

- A. Walls and Columns: Apply gypsum board with long dimension parallel to metal stud framing members or metal furring channels. Except for column edges, lay out gypsum board ends and edges to occur over studs or channels, horizontally and vertically. Use gypsum board of maximum practical length to minimize joints. Joints to be neatly fitted and staggered on opposite sides of studs. Cut gypsum board to fit tight to penetrations and abutting items. Allow 1/4 inch clear space at floor to prevent wicking. Reduce wicking gap to 1/8 inch at sound-rated partitions. Extend gypsum board upward to structural soffit unless lower extent is indicated, but in no case less than 6 inches above level of suspended ceiling. Cover gypsum board end joints at masonry walls with metal trim strip against a continuous bead of calking.
- B. Ceilings: Apply gypsum board to the ceiling with long dimension at right angles to the furring members. Gypsum board may be applied with long dimension parallel to furring members that are spaced 12 inches o.c. when attachment members are provided at end joints.
- C. Double Layer 2 Hour Fire Rated Construction:
  - 1. Screw apply first ply of fire rated gypsum backing board as herein before specified and in accord with manufacturer's directions.
  - 2. Laminate face layer of fire rated gypsum board over first ply using Durabond Joint Compound 210 or 90 applied to entire back surface of face panels and to extreme edges of panels. Apply adhesive in beads approximately 3/8 inch wide at base and 1/2 inch high spaced 4—1/2 inches o.c. maximum. Stagger joints in face layer with joints in first ply. Laminate face layer to base layer using moderate pressure, temporary supports and suitable screws in accord with manufacturer's directions.
- D. Sound Rated Construction: Where sound rated construction is indicated, it shall

be in accord with approved manufacturer's published installation directions.

- E. Fire Rated Construction: Where fire rated construction is indicated, it shall be in accord with approved manufacturer's U.L. or F.M. fire rated installation directions.
- F. Accessories and Trim: Install accessories and trim as follows:
  - 1. Corner Beads: Install specified corner beads from floor to ceiling line on all external gypsum board surfaces.
  - 2. Casing Beads: Where gypsum board is indicated to be inserted in hollow metal door frames, sidelight frames, casing beads will not be required. Install specified casing beads in all other locations where gypsum board abuts another material and to exposed gypsum board edges.
    - 1. Control Joints: Install control joints in all partitions, ceilings and soff its, spaced not more than 30 feet o.c. Locate control joints in partitions at internal corners or at door frame edges, extending from top of door frame to top of partition. Where no door occurs and control joints are required, install control joints from floor to top of partitions. Where control joints are required on one side of a partition, provide a matching control joint on opposite side of partition. Where a space has a gypsum board ceiling and partition requires a control joint, extend partition control joint through ceiling at same location. After removal of tape joint covers, seal control joints with sealant as specified in Section 07900.
  - 3. Fasten above accessories and trim with staples or crimps in accord with manufacturer's recommendations. Cut end joints square and align for tight neat fit.
  - 4. Flanges of corner beads and control joints shall be coated with not less than two coats of taping compound sanded smooth.
  - 5. Where sound rated partitions are indicated, sound and fire seal behind control joints as recommended by gypsum board manufacturer.

### **3.06 SUSPENDED GYPSUM BOARD FIRE/DRAFT STOP PARTITIONS IN CEILING PLENUMS**

- A. Locate suspended fire/draft stop partitions so that bottom runners are located over acoustical ceiling grid members as indicated and to limit ceiling areas to 10,000 s.f.
- B. Fasten top runner to underside of concrete slab with sufficient 1/4 inch diameter machine screws in concrete expansion anchors to safely suspend barrier and with screws not more than 12 inch centers, screws staggered. Provide extra fasteners each side each stud as required. Do not mechanically fasten studs or runners to acoustical ceiling system.
- C. Attach each metal stud to top runner with sufficient sheet metal screws or bolts to safely suspend partition, and with not less than one screw in each flange of each

stud. Provide continuous bottom runners attached to each stud flange with sheet metal screws.

- D. Set stud braces every second stud.
  - 1. Use same material as studs.
  - 2. Set braces at 30 degrees minimum. Screw fasten to studs and to underside of concrete slabs with 1/4 inch diameter machine screws in concrete expansion anchors.
- E. Provide additional fasteners as required to assure rigid and secure support and bracing of entire system.
- F. Apply 5/8 inch regular gypsum board to one side of fire/draft stop partition studs, extending from underside of overhead slab to within 3 inches of finish ceiling line.
- G. Gypsum Board joints to be sealed with compound, tape and topping compound. Sanding will not be required.
- H. Close gap between bottom of fire draft stop and top of acoustical panel ceiling with properly sized gypsum board strips screwed to studs; coordinate work with Acoustical Panel Ceiling Work.
- I. Seal perimeter of partitions and perimeters of partition penetrations air tight with herein before specified acoustical sealant.

### **3.07 SOUNDPROOF PARTITIONS**

- A. Joints on opposite sides of partitions shall not occur on same stud member.
- B. Electrical boxes, telephone boxes and other openings shall not be placed back to back.
- C. Provide acoustical tape sealing of electrical and telephone boxes after conduits and boxes are installed and before gypsum board is in place. Cover backs and sides of boxes with 1/16 inch thick acoustical tape or acoustical sealant so as to provide air tight soundproofing of all holes in outlet boxes. Close unused knockout openings with metal caps prior to application of tape or sealant.
- D. Sound Attenuation Blankets: After installation of electrical and phone conduits and outlet boxes, and after installation of gypsum board on one side of studs, install specified sound attenuation blankets or batts in sound rated partitions tightly packed in partitions to fill voids. Secure blankets or batts by staples or panel adhesive to back of gypsum board.
- E. Sealing Gypsum Board Openings: After gypsum board is in place, seal gypsum board openings around outlet boxes and other similar penetrations to gypsum

board with acoustical sealant or joint compound and joint reinforcing tape.

- F. Perimeter Sealing: Entire perimeter of partitions shall be sealed both sides with specified acoustical sealant, using a minimum of one bead of sealant each side. Cut gypsum boards on loose fit around partition perimeter. Leave a groove no more than 1/8 inch wide.
  - 1. Gun apply solid 1/4 inch minimum round continuous beads of sealant under gypsum board at floor line, at vertical edges of gypsum board abutting cement plaster, masonry or other materials, and at tops of gypsum board partition abutting overhead structure including edges above ceilings.
  - 2. Coordinate acoustical sealing of mechanical and electrical items such as television outlets, telephone outlets, electrical outlets, medicine cabinets, pipes, conduits and ducts penetrating partitions. Provide acoustical sealing around penetrations not having sealing specified in other sections.
  - 3. Conceal beads of sealant with floor base, trim or use above ceilings.
  - 4. At control joints and where gypsum board abuts another material and joints will be exposed, apply acoustical sealant and wipe smooth with a moist rag.

### **3.08 INSTALLATION OF TWO HOUR FIRE RATED SHAFT WALLS**

- A. Install in strict accord with manufacturer's published instructions and the following:
- B. Position shaft wall "J" runners at floor and overhead structure with short leg toward finish side of wall. Securely attach runners to structural supports with power-driven fasteners at both ends and 24 inch o.c.
- C. Cut shaft wall studs 3/8 inch to not more than 1/2 inch less than floor-to-overhead height.
- D. Cut shaft wall liner panels 1 inch less than floor-to-overhead height to allow tilting into place when inserted into floor runners. With panel top held against back flange of overhead runner, insert panel edge fully into stud groove, tightly abutting the web. If necessary to drive panel into groove, protect panel edge with short section of wood 2x4. Where shaft wall exceeds 14 feet in height, position liner panel end joints within the upper and lower third points of wall reinforce joints with a horizontal shaft wall stud and screw attach adjacent vertical stud to runners. Stagger joints top and bottom in adjacent panels to prevent a continuous horizontal joint.
- E. Erect two layer of 1/2 inch fire-rated gypsum board panel vertically over studs. Fasten first layer to studs with specified 1 inch screws spaced 24 inches o.c. at edges and in field. Apply second layer of 1/2 inch panels vertically. Stagger edge joints in face layer from edge joints in base layer. Attach face-layer panels with 1-5/8 inch Type "S" screws staggered from those in the base, spaced 12" o.c. at edges and in field and driven into studs.

- F. Joint system and trim as specified herein for regular gypsum board application.
- G. Sealant: Apply 3/8 inch diameter continuous beads of sealant to both sides of runners and end studs to seal intersection with adjoining structure. Perimeter of gypsum board shall also receive calking. Seal holes cut in gypsum board panels. Use acoustical sealant specified herein.

### **3.09 GYPSUM BOARD ATTACHMENT**

- A. Space fasteners not less than 3/8 inch nor more than 1/2 inch from edges and ends of gypsum board. While fasteners are being driven, hold the gypsum board in firm contact with underlying support. Proceed from the central portion of the gypsum board to the ends and edges. If the paper surfaces are broken by fastener in attachment, drive another fastener approximately 2 inches from the faulty fastener.
- B. Drive screws with a mechanical tool, using a special bit to provide screwhead penetration just below gypsum board surface, without breaking surface paper or stripping the framing member around the screw.
- C. Spacing of Fasteners - Screw Method:
  - 1. Walls: Space screws 12 inches o.c., maximum.
  - 2. Ceilings: Space screws 12 inches o.c., maximum.
  - 3. Fire rated construction: Space screws 12 inches o.c., maximum in field and 8 inches o.c. at edges.
  - 4. Fasten corner beads and trim with fasteners spaced 6 inches o.c., driven through gypsum board into framing members.

### **3.10 JOINT AND FASTENER TREATMENT**

- A. Mix and use joint finishing materials in accord with manufacturer's published directions. Allow a minimum drying time of 24 hours between coats. Sand as necessary after each application without scuffing paper surface of gypsum board.
- B. Reinforce wall and ceiling angles and inside vertical corner angles with tape folded to conform to the adjoining surfaces and to form a straight, true angle.
- C. Embedment Coat: Apply a thin, uniform layer of joint compound (embedding type) approximately 3 inches wide over the joint to be reinforced. Center tape over the joint and seat into the compound, leaving sufficient compound under the tape to provide proper bond. Apply a skim coat of compound immediately after embedding tape.
- D. Fill Coat: After drying, apply fill coat over embedding coat by evenly spreading compound over and slightly beyond the tapered edge area of the gypsum board;

feather at the edges.

- E. Topping: Cover fill coat with topping compound, spread evenly over and slightly beyond the edge of the preceding coat; feather to a smooth, uniform finish.
- F. Fastener Concealment: Treat fastener dimples and holes as described for joint treatment.
- G. Conceal flanges of corners beads, casing beads, trim members and control joints by a minimum of two coats of compound applied in accord with manufacturer's published directions.
- H. Joints at Penetrations: Where pipes, conduits, ducts, electrical devices, and other items penetrate gypsum board, calk as described in the Joint Sealers Section.

### **3.11 GROUTING OF HOLLOW METAL FRAMES**

- A. Grout Mix: Mix neat wood fibered gypsum base coat plaster with clean water for proper application consistency.
- B. Grouting: After door frames are set up and braced in place, grout frame jambs solid up to jamb anchor clips and before grout sets, rake out grooves to receive gypsum board. After metal studs are in place, including runners and studs over door frame heads, pour grout in runners and before grout sets, rake out grooves to receive gypsum board.

**ADDENDUM RECEIPT FORM**

**CITY OF HIALEAH  
POLICE STATION SECTOR 3  
2700 W 8<sup>TH</sup> AVE  
HIALEAH, FLORIDA**

***FRAMING & DRYWALL - 2009/10-3230-00-029***

**CONTRACTOR'S NAME** \_\_\_\_\_

**ADDRESS** \_\_\_\_\_

**PHONE NO.** \_\_\_\_\_ **FAX NO.** \_\_\_\_\_

**CONTACT NAME** \_\_\_\_\_ **SIGNATURE** \_\_\_\_\_

**THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDUM BY SIGNING AND DATING BELOW: (COPY OF THIS FORM MUST BE FAXED AND IMMEDIATELY TO CITY of HIALEAH @ (305) 687-2642**

**ADDENDUM**

**SIGNATURE**

**DATE**

3

**ARF**